

4.2.A. 0513010701.

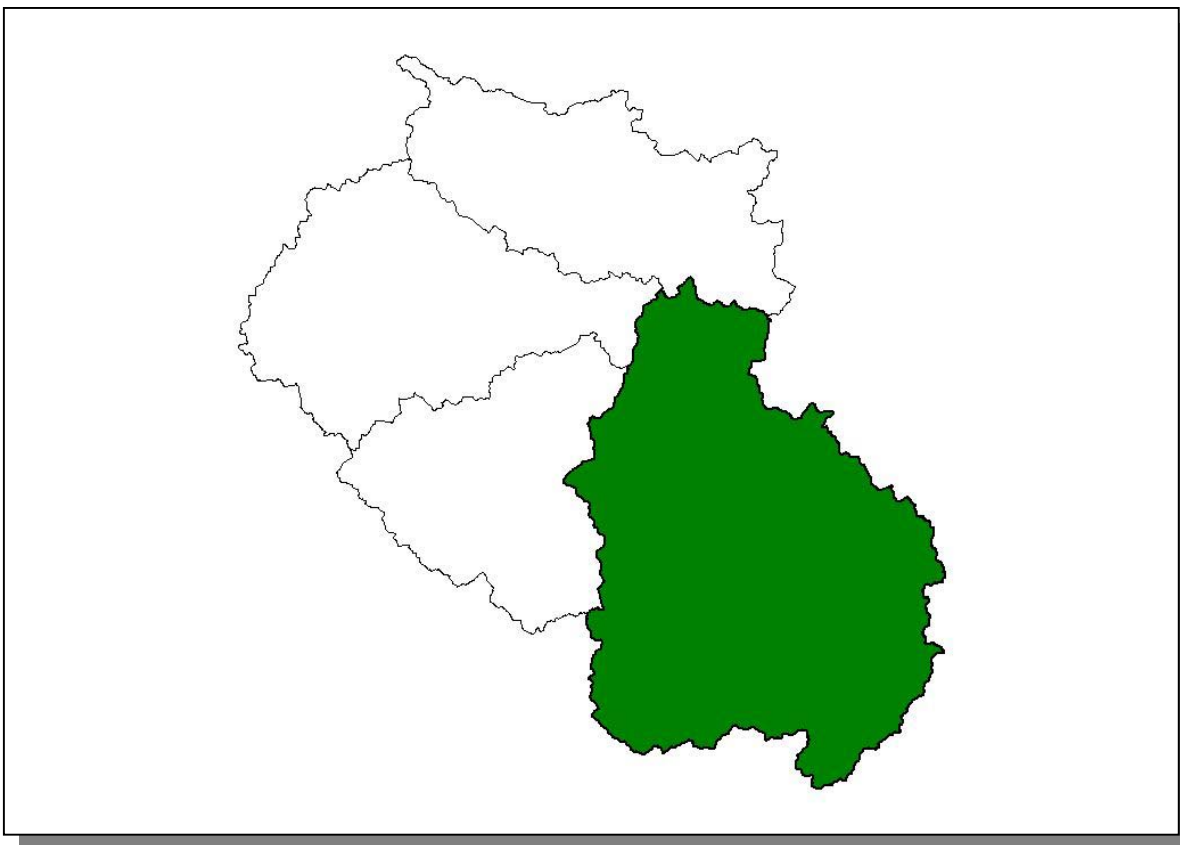


Figure 4-2. Location of Subwatershed 0513010701. All Collins HUC-10 subwatershed boundaries are shown for reference.

4.2.A.i. General Description.

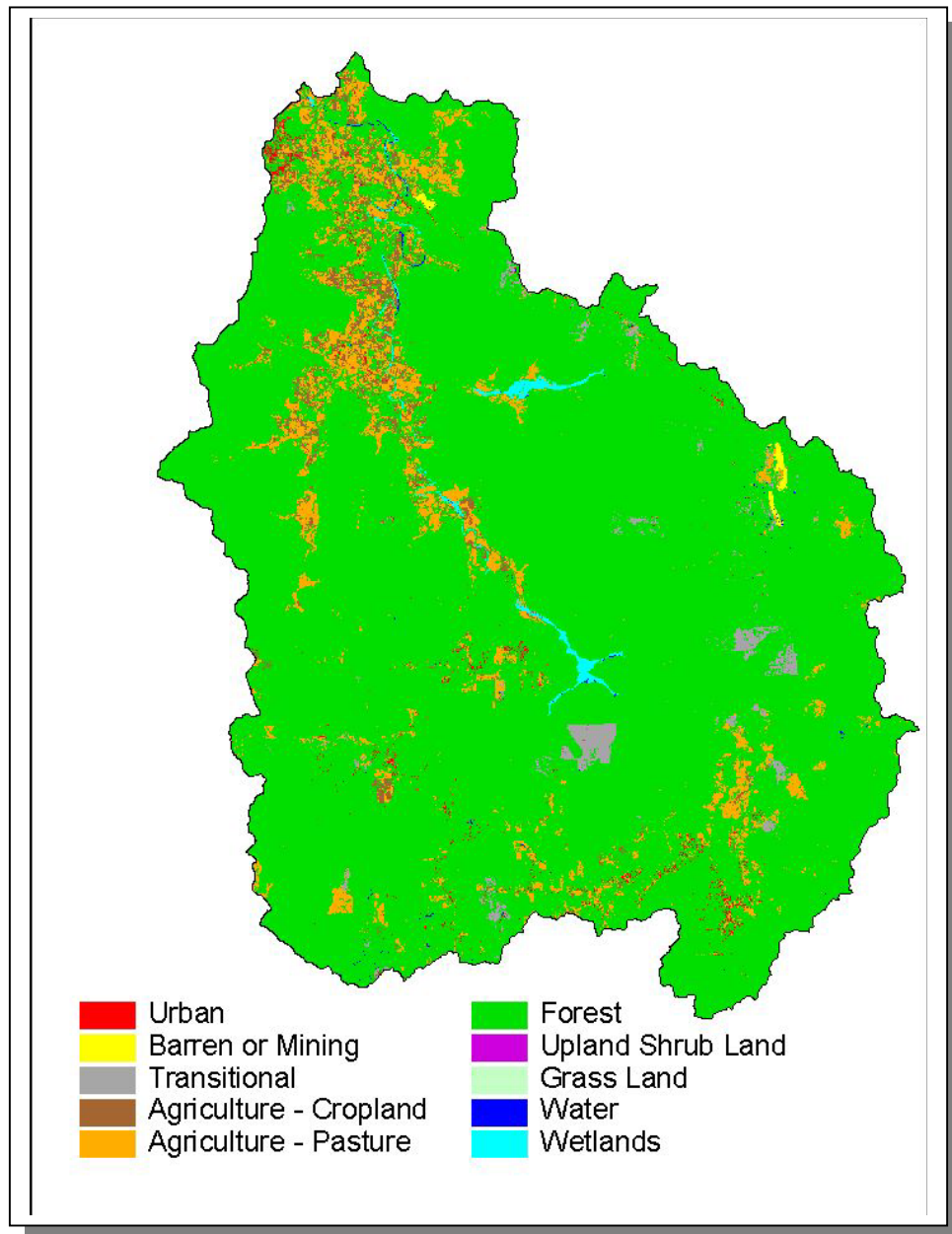


Figure 4-3. Illustration of Land Use Distribution in Subwatershed 0513010701.

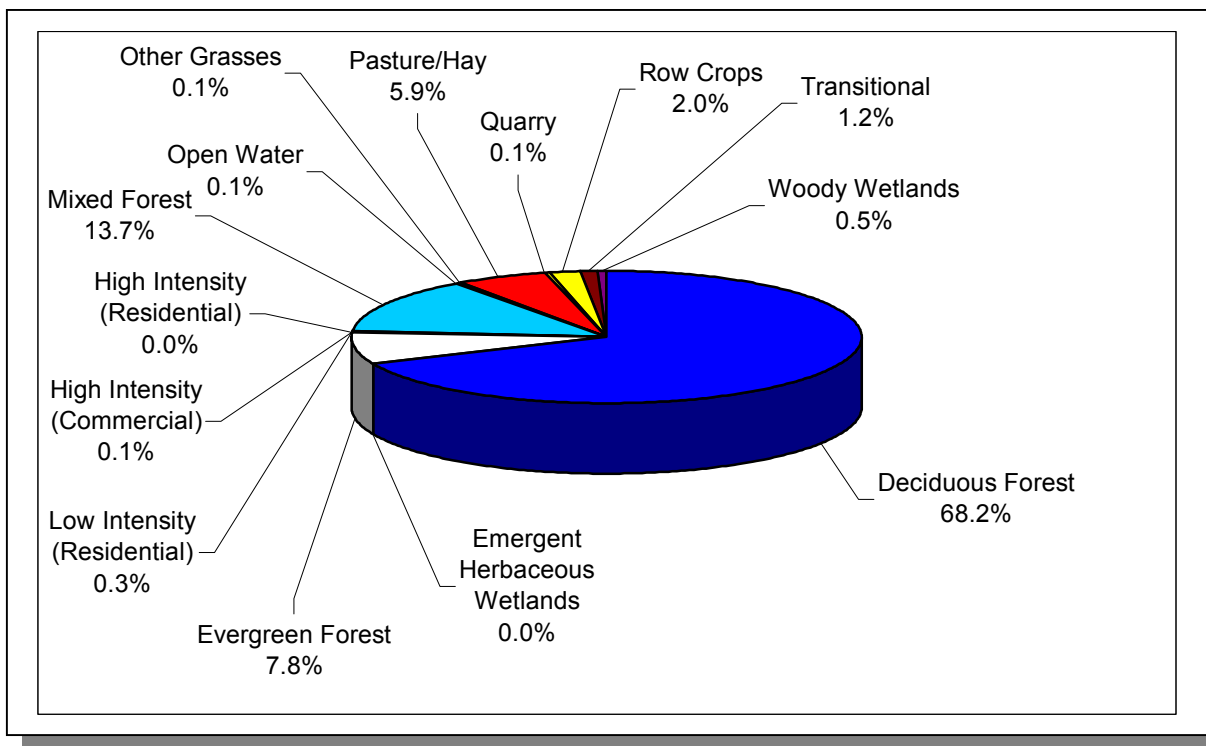


Figure 4-4. Land Use Distribution in Subwatershed 0513010701. More information is provided in Collins-Appendix IV.

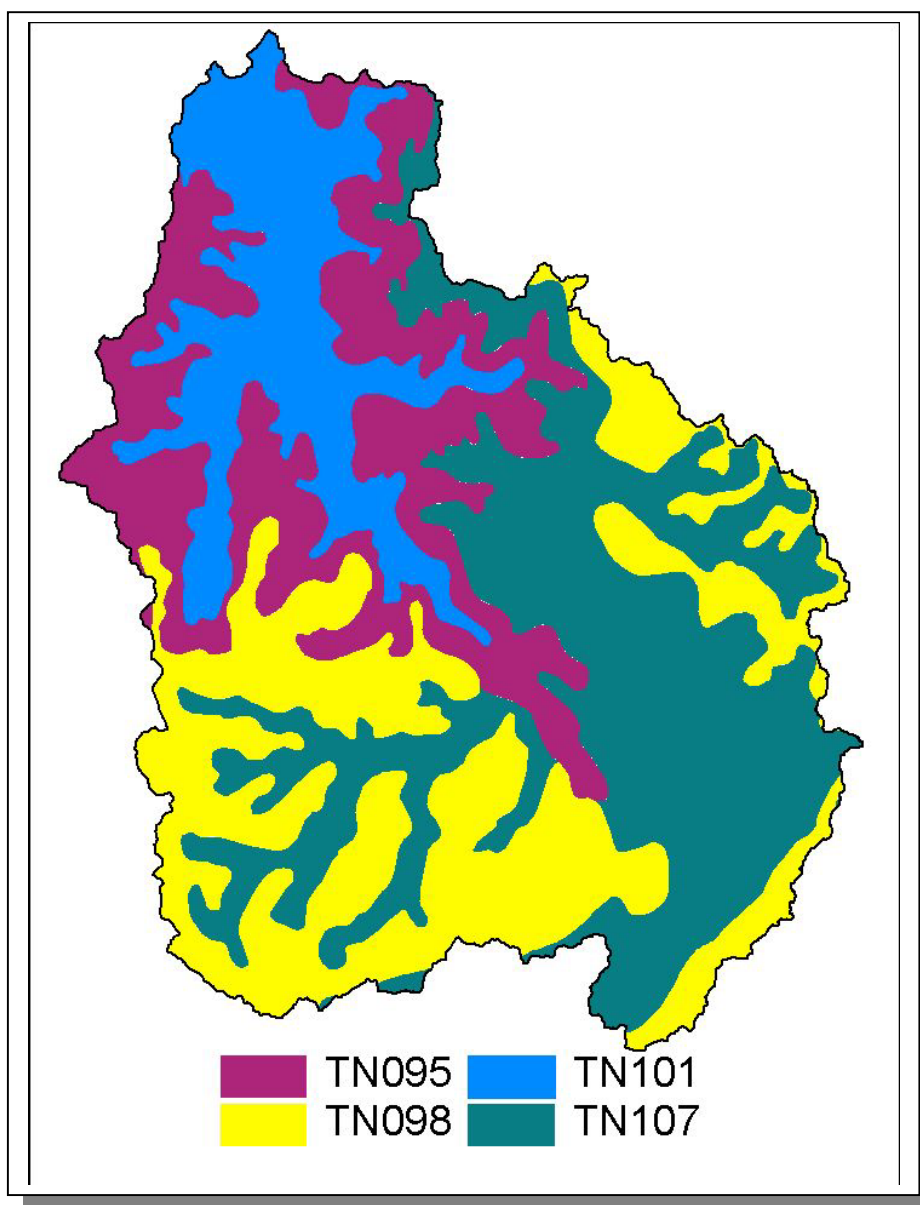


Figure 4-5. STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0513010701.

STATSGO MAP UNIT ID	PERCENT HYDRIC	HYDROLOGIC GROUP	PERMEABILITY (in/hour)	SOIL pH	ESTIMATED SOIL TEXTURE	SOIL ERODIBILITY
TN095	0.00	B	2.35	5.12	Loam	0.31
TN098	1.00	C	3.98	4.82	Loam	0.32
TN101	0.00	B	1.71	5.39	Loam	0.35
TN107	1.00	C	6.34	4.84	Loam	0.28

Table 4-2. Soil Characteristics by STATSGO (State Soil Geographic Database) Soil Map Units in Subwatershed 0513010701. More details are provided in Collins-Appendix IV.

County	COUNTY POPULATION		Portion of Watershed (%)	ESTIMATED POPULATION IN WATERSHED		PERCENT CHANGE
	1990	1997 Est.		1990	1997	
Grundy	13,362	14,012	53.24	7,113	7,459	4.9
Marion	24,860	26,674	0.17	42	45	7.1
Sequatchie	8,863	10,119	14.74	1,307	1,492	14.2
VanBuren	4,846	5,060	0.17	8	9	12.5
Warren	32,992	35,777	21.66	7,145	7,748	8.4
Totals	84,923	91,642		15,615	16,753	7.3

Table 4-3. Population Estimates in Subwatershed 0513010701.

Populated Place	County	Population	NUMBER OF HOUSING UNITS			
			Total	Public Sewer	Septic Tank	Other
McMinnville	Warren	11,194	5,123	4,746	353	24
Altamont	Grundy	648	260	0	246	14
Beersheba Springs	Grundy	608	286	15	263	8
Coalmont	Grundy	857	300	4	268	28
Gruetli-Laager	Grundy	1,810	680	15	633	32
Palmer	Grundy	804	301	8	275	18
Total		15,921	6,950	4,788	2,038	124

Table 4-4. Housing and Sewage Disposal Practices of Select Communities in Subwatershed 0513010701.

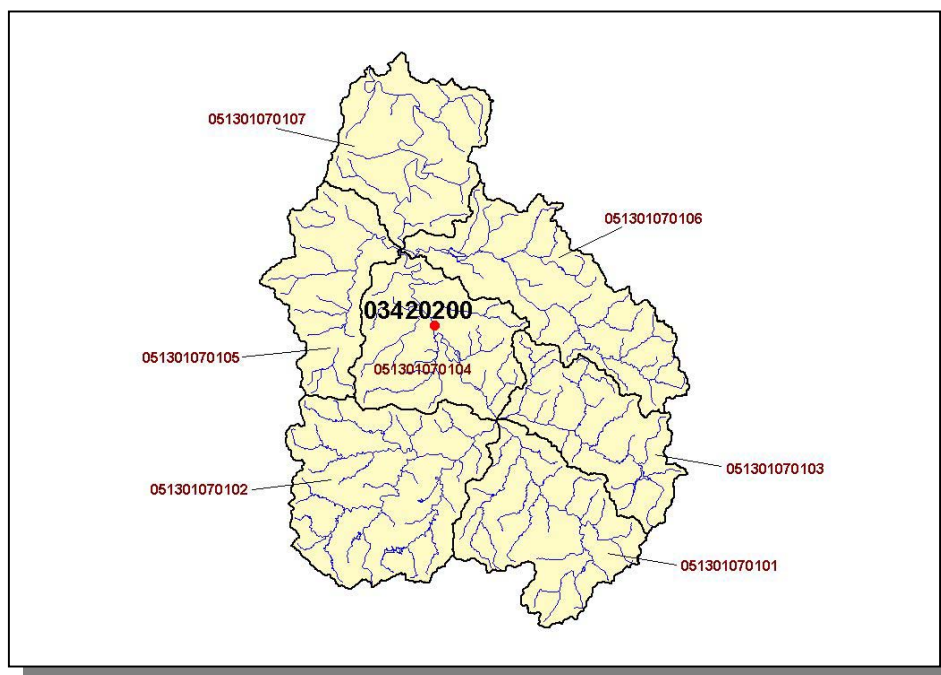


Figure 4-6. Location of Historical Streamflow Data Collection Sites in Subwatershed 0513010701. Subwatershed 051301070101, 051301070102, 051301070103, 051301070104, 051301070105, 051301070106, and 051301070107 boundaries are shown for reference. More information is provided in Collins-Appendix IV.

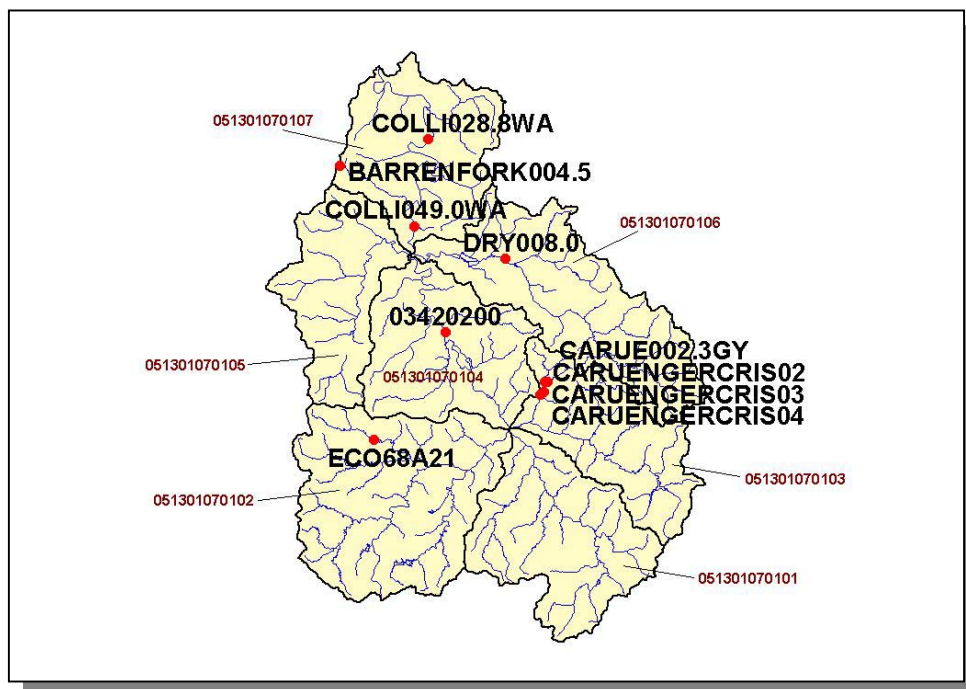


Figure 4-7. Location of STORET Monitoring Sites in Subwatershed 0513010701. Subwatershed 051301070101, 051301070102, 051301070103, 051301070104, 051301070105, 051301070106, and 051301070107 boundaries are shown for reference. More information is provided in Collins-Appendix IV.

4.2.A.ii. Point Source Contributions.

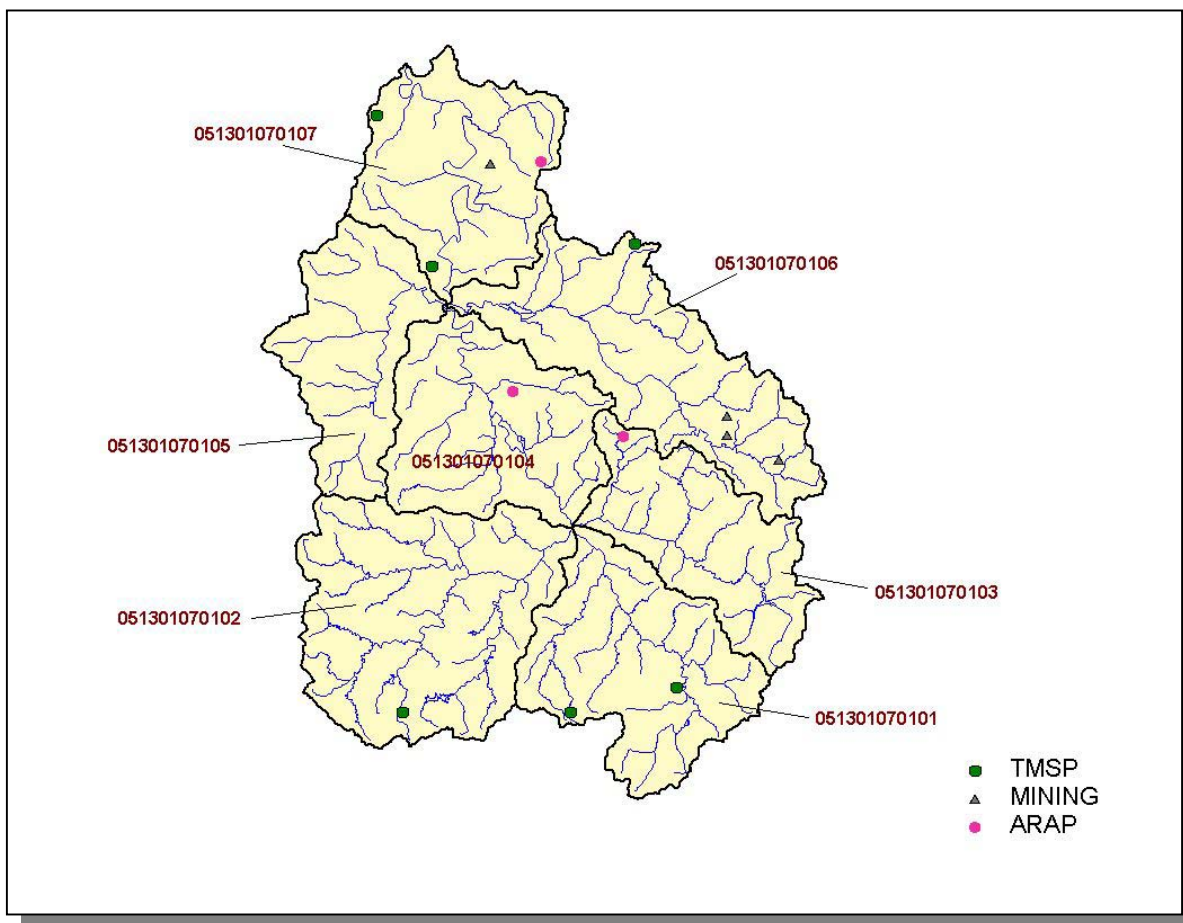


Figure 4-8. Location of Active Point Source Facilities in Subwatershed 0513010701. Subwatershed 051301070101, 051301070102, 051301070103, 051301070104, 051301070105, 051301070106, and 051301070107 boundaries are shown for reference. More information is provided in the following figures.

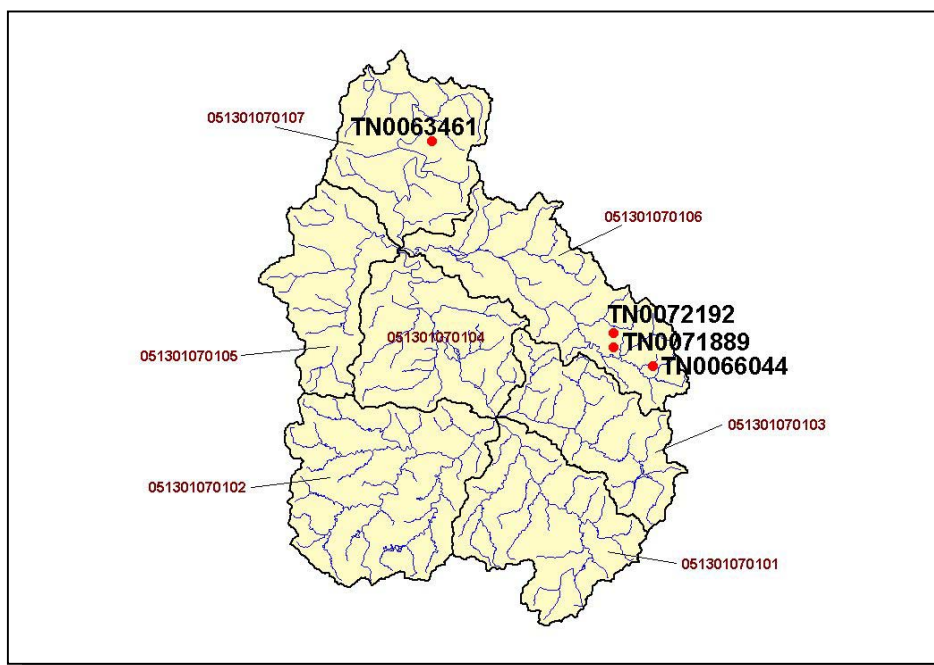


Figure 4-9. Location of Active Mining Sites in Subwatershed 0513010701. Subwatershed 051301070101, 051301070102, 051301070103, 051301070104, 051301070105, 051301070106, and 051301070107 boundaries are shown for reference. More information, including the names of facilities, is provided in Collins-Appendix IV.

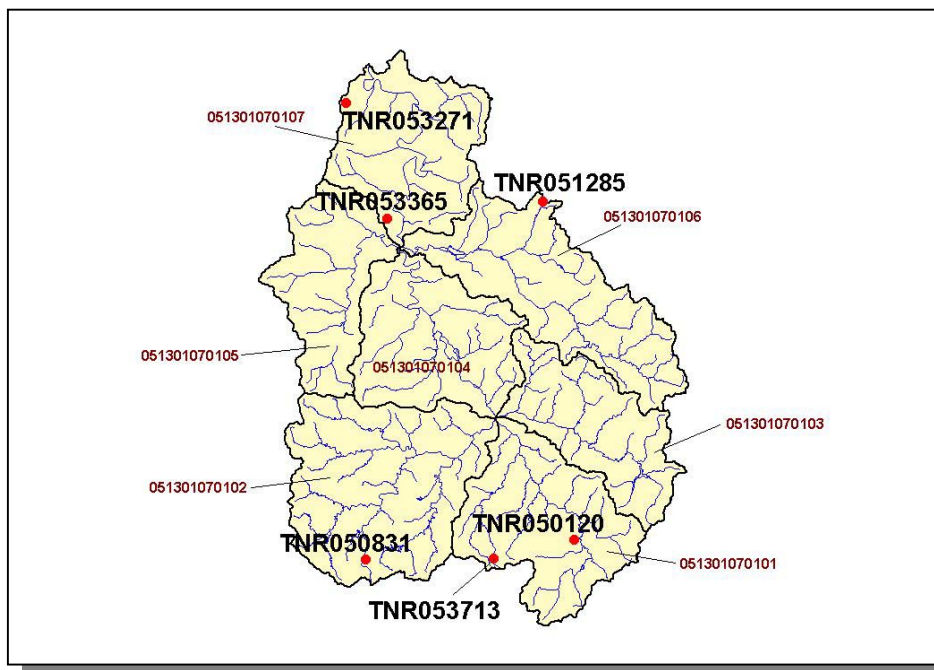


Figure 4-10. Location of TMSP Facilities in Subwatershed 0513010701. Subwatershed 051301070101, 051301070102, 051301070103, 051301070104, 051301070105, 051301070106, and 051301070107 boundaries are shown for reference. More information, including the names of facilities, is provided in Collins-Appendix IV.

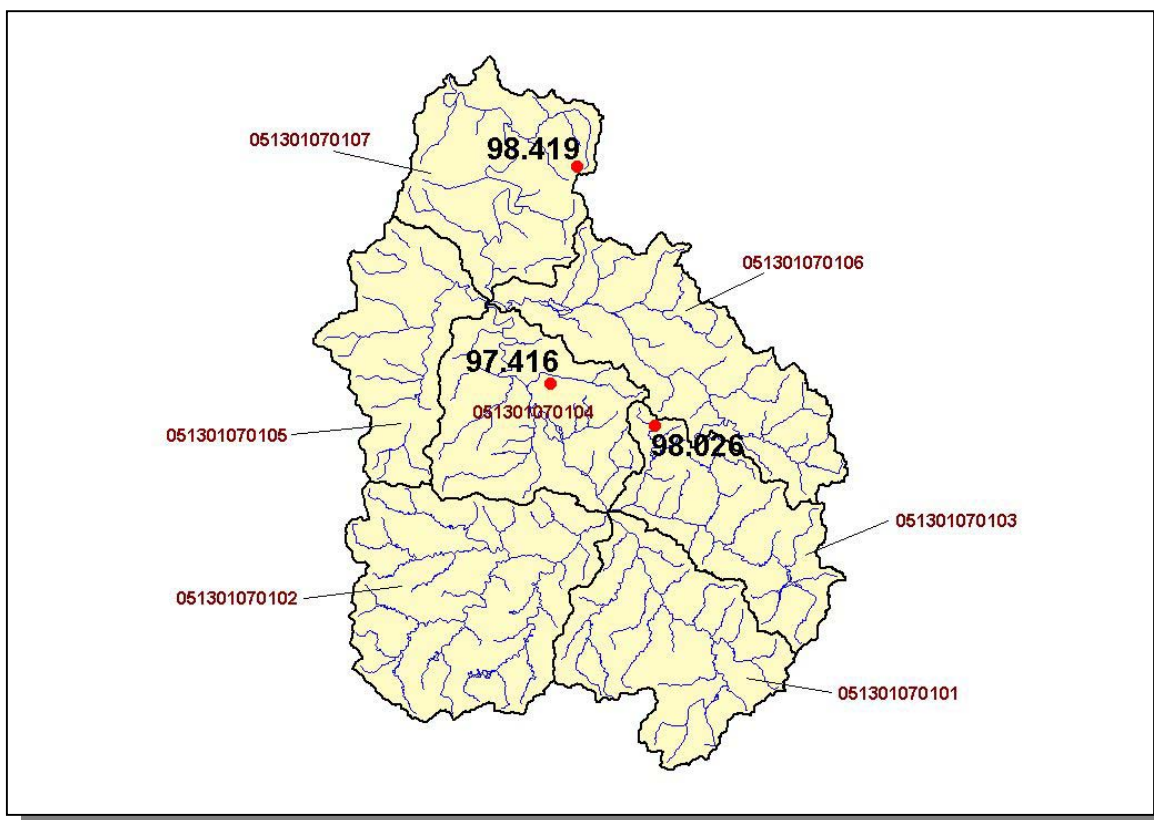


Figure 4-11. Location of ARAP Sites (Individual Permits) in Subwatershed 0513010701. Subwatershed 051301070101, 051301070102, 051301070103, 051301070104, 051301070105, 051301070106, and 051301070107 boundaries are shown for reference. More information, including the names of facilities, is provided in Collins-Appendix IV.

4.2.A.iii. Nonpoint Source Contributions.

LIVESTOCK (COUNTS)						
Beef Cow	Cattle	Milk Cow	Chickens	Chickens Sold	Hogs	Sheep
3,046	6,597	373	8	4,403,940	784	10

Table 4-5. Summary of Livestock Count Estimates in Subwatershed 0513010701. According to the 1997 Census of Agriculture (<http://www.nass.usda.gov/census/>), "Cattle" includes heifers, heifer calves, steers, bulls and bull calves; "Chickens" are layers 20 weeks and older; "Chickens Sold" are all chickens used to produce meat.

County	INVENTORY		REMOVAL RATE	
	Forest Land (thousand acres)	Timber Land (thousand acres)	Growing Stock (million cubic feet)	Sawtimber (million board feet)
Grundy	174.5	165.9	5.6	17.7
Sequatchie	137.3	137.3	0.6	1.2
Van Buren	145.0	135.4	2.3	9.5
Warren	93.6	93.6	2.4	10.1
Totals	550.4	532.2	10.9	38.5

Table 4-6. Forest Acreage and Annual Removal Rates (1987-1994) in Subwatershed 0513010701.

CROPS	TONS/ACRE/YEAR
Corn (Row Crops)	5.89
Soybeans (Row Crops)	8.97
Grass (Hayland)	5.56
Legume/Grass (Hayland)	1.52
Grass (Pastureland)	0.53
Legume (Hayland)	0.10
Grass, Forbs, Legumes (Mixed Pasture)	0.51
Forest Land (Grazed)	0.00
Forest Land (Not Grazed)	0.00
Farmsteads and Ranch Headquarters	0.22
Nonagricultural Land Use	0.00
Conservation Reserve Program Land	0.33
Wheat (Close Grown Cropland)	10.12
Other (Horticultural)	7.71
Other Vegetables and Truck Crop	7.28

Table 4-7. Annual Estimated Total Soil Loss in Subwatershed 0513010701.